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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,545	06/23/2003	Heon Min Lee	0630-1798P	5755	
2292 7	2292 7590 02/22/2005			EXAMINER	
	WART KOLASCH &	MIS, DAVID C			
PO BOX 747 FALLS CHUR	.CH, VA 22040-0747	ART UNIT	PAPER NUMBER		
			2817		
			DATE MAIL ED: 02/22/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/600,545	LEE ET AL.					
Office Action Summary	Examiner	Art Unit					
	David Mis	2817					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 02 Fe	ebruary 2005.						
• •							
Disposition of Claims							
4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-8 is/are allowed. 6) Claim(s) 9 and 10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers		•					
9) The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on 23 June 2003 is/are: a)⊠ accepted or b)□ objected to	by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	atent Application (PTO-152)					

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The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 9 and 10 are rejected under 35 U.S.C. 102(b.) as being clearly anticipated by Stokes et al.

Stokes et al disclosed a VCO (Column 2, lines 26-30) comprising: a thin film bulk acoustic resonator (Column 2, lines 23-26) for generating a resonance frequency and controlling the generated resonance frequency according to applied voltage (Column 2, lines 5-8); and an amplifier for amplifying the resonance frequency (Column 1, lines 29-58, where Stokes et al show their intent to replace an impractical regular voltage controlled crystal in a VCO with their practical voltage controlled SBAR, which necessarily meant that the voltage controlled SBAR would be the feedback circuit for the VCO amplifier) controlled by the thin film bulk acoustic resonator to be a certain frequency (Column 2, lines 5-8) and outputting the amplified frequency (This in necessarily the signal at the VCO amplifier output); wherein the thin film bulk acoustic resonator increases or decreases the resonator frequency according to the voltage (Column 2, lines 5-8 where the bias is adjusted so

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that the electric field across the SBAR is "varied ... over moderate levels ... which ... varies the resonant frequency ...).

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 4. Claims 1-8 are allowed.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Mis whose telephone number is (571)272-1765. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571)272-1769.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Mis

Primary Examiner

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